

C15, R744 Introduction and Safe Handling

This one day course covers the basics of carbon dioxide (CO₂, R744) as a refrigerant, how it is used in commercial applications and explains how it should be safely handled. It is aimed at experienced service engineers.

The following theory and practical topics are included:

- Basics of refrigerant R744;
- Explanation of critical point, trans critical operation and other key definitions;
- Hazards associated with R744;
- How to handle R744 safely;
- Installation, service and maintenance procedures for R744 systems;
- Explanation of transcritical booster systems (packs and condensing units) with an overview of other R744 systems if needed;
- Examples of CO₂ systems;
- Piping and components;
- Practical and theory assessments.

The course is a mix of theory, videos, hands on practical, discussion sessions and “toolbox talks” with the emphasis on active participation. Numbers on the course are usually limited to eight. Trainees are provided with high quality course notes. The course can be tailored to suit individual RAC sectors, businesses and equipment types.

Our workshop is equipped with a range of R744 systems:

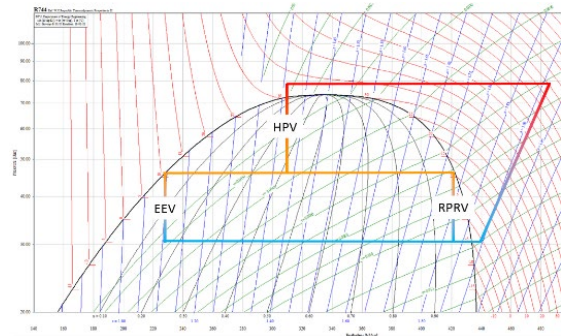
- Transcritical booster pack with HT and LT evaporators;
- HT and LT air cooled condensing units;
- Water cooled condensing unit.

We also have a range of R744 charging equipment.

Cost

Each course is £425 per person excluding VAT. The cost includes course notes, lunch and certification.

The course certificate is valid for 5 years.





Location

The course is run at our training centre a few minutes from junction 8 of the M5. We provide joining information with directions, start time and a list of local hotels.

About Cool Concerns Training

Our training is developed by the working director Stephen Benton and delivered by training centre manager Alan Snelling. We are engineers and have a wide and varied range of practical and theoretical experience within the refrigeration, air conditioning and heat pump industry.

We provide training which is up to date, informative and fun with the emphasis on practical 'hands on' mixed with high quality presentations and supported by relevant documentation and notes. All our training is designed to use trainees' time as efficiently as possible to minimise expensive down time. We draw on our wide range of experience to prepare and deliver industry leading training sessions. We limit numbers on each session to ensure an effective trainer to trainee ratio.



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